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410 Mason Annex Bldg.
318 Carondelet Street
Tel. 522-2326

THANK YOU

for your inquiry on Columbia products,
particularly our Commander ribbon.

Page 12 of the enclosed catalog tells
more about this fabric ribbon which is
designed to produce the sharpest poss-
ible imaging without a trace of fabric
weave.

We shall look forward to the pleasure
of serving you. There is a Columbia
branch office near you and our repre-
sentative will be at your service.

New York
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Columbia

BUSINESS MACHINE RIBBONS
CARBON PAPERS
SPIRIT DUPLICATING SUPPLIES
DATA PROCESSING EQUIPMENT SUPPLIES

Brand Names That Mean Quality Performance

- • Type N' Tape
- • Classic
- • Marathon
- • Plastisol F-100
- • Transofax
- • Columbia SF-100
- • Columbia M-50
- • Commander
- • Ray-Sure
- • Silk Gauze
- • Clean Hands

COLUMBIA RIBBON & CARBON MFG. CO., INC.

Columbia RIBBON & CARBON MANUFACTURING CO., INC.

GLEN COVE, N. Y.

COLUMBIA RIBBON & CARBON PACIFIC
DUARTE, CALIFORNIA

COLUMBIA RIBBON & CARBON MFG. CO., INC.
Glen Cove, N.Y. -Aurora, Ill. -Duarte, Calif.

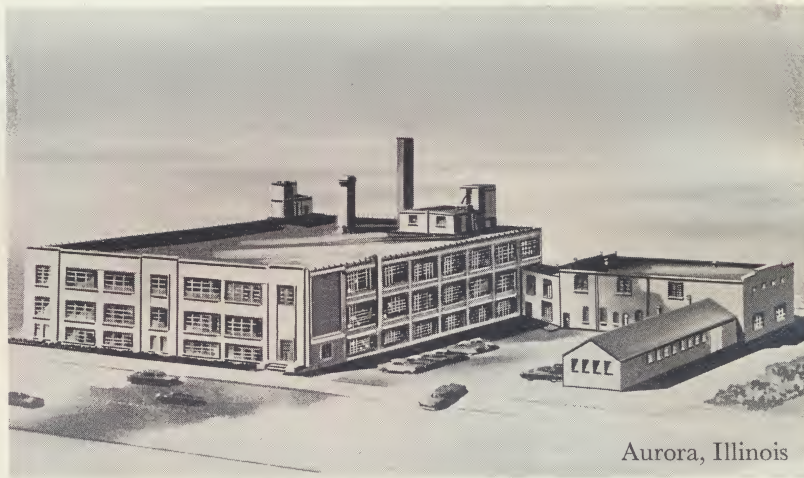


Columbia

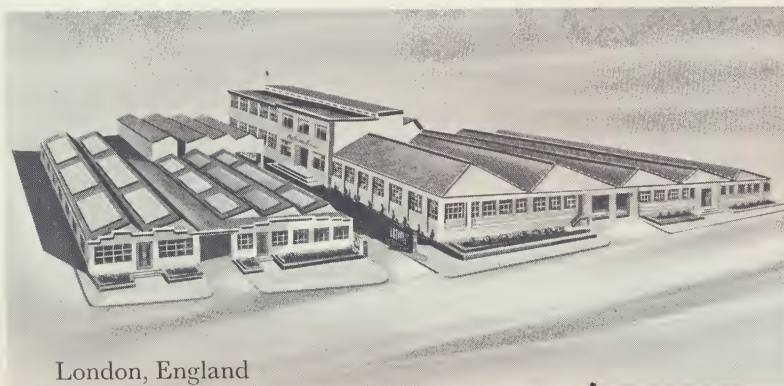
RIBBON AND CARBON
MANUFACTURING COMPANY, INC.



Duarte, California



Aurora, Illinois



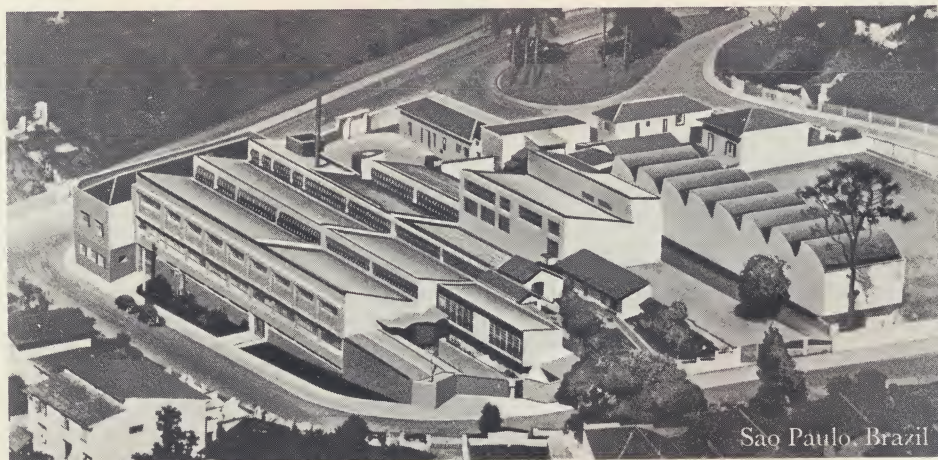
London, England



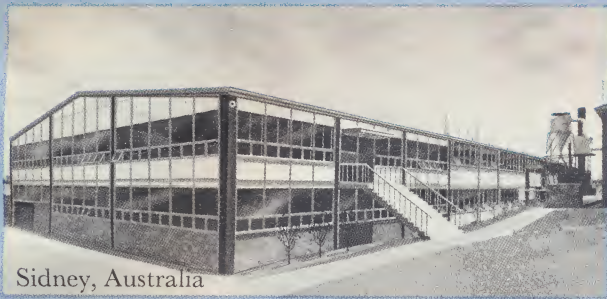
Zurich, Switzerland



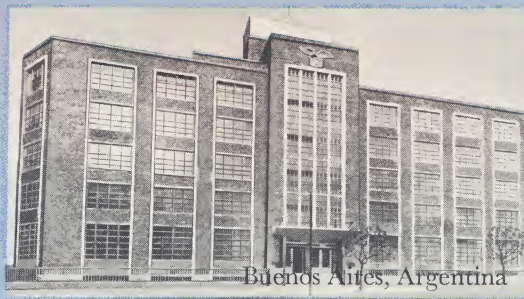
Executive Offices and Factory Glen Cove, New York



Sao Paulo, Brazil



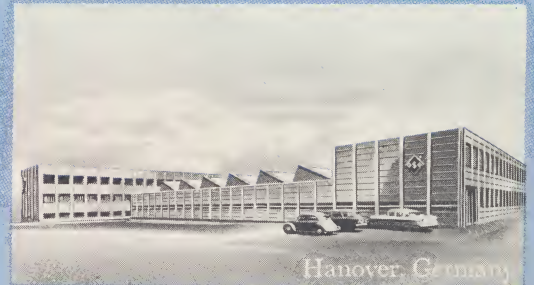
Sidney, Australia



Buenos Aires, Argentina



Toronto, Canada



Hanover, Germany

Columbia

AROUND THE WORLD

This is COLUMBIA. Plants & affiliates throughout the Free World, branch offices in every major city in the United States and hundreds of dealers throughout the country are ready to serve you.

This is the organization that makes fine quality carbons, ribbons, duplicating and data processing materials in great variety for you. Whatever supplies you need for making an image that makes an impression you can probably find listed in this brochure. If not, we can very likely make them for you.

Many trend-setting products have come from Columbia—superior Silk Gauze typewriter ribbons; carbon paper in ribbon form for electric typewriters; ribbon bases of synthetic films; Platisol copying material made with Columbia's patented ink on a tough film base for exceptionally long wear and sharp impression; the Ready-Master Unit for spirit duplicating; the Transofax Process. The list is long; Columbia research never stops.

Searching out, studying, learning, testing, Columbia does not market a new product until it is *right*. Columbia's policy is this: *prove* the product before producing it. Once proved and in production at Columbia, *quality control* are key words.

Specify Columbia. The name is your assurance of quality products and performance satisfaction.

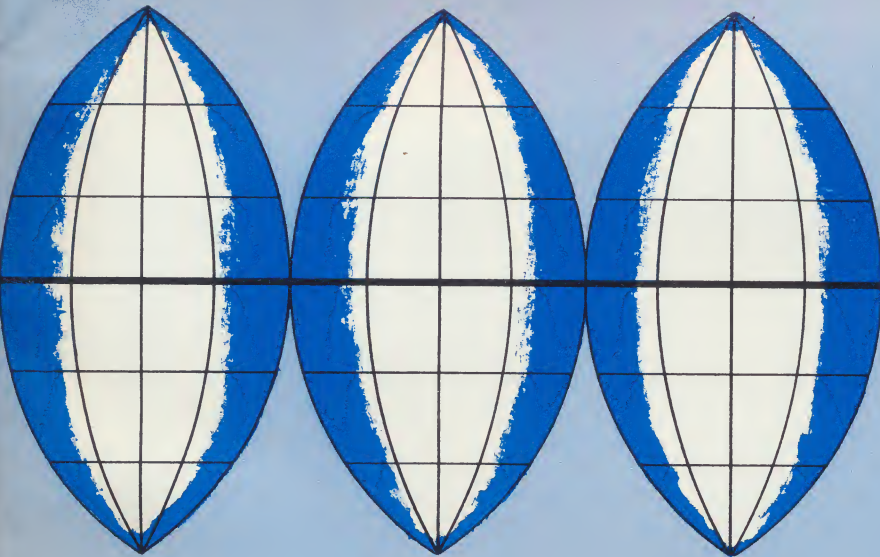
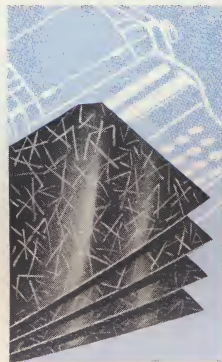


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CARBON PAPERS

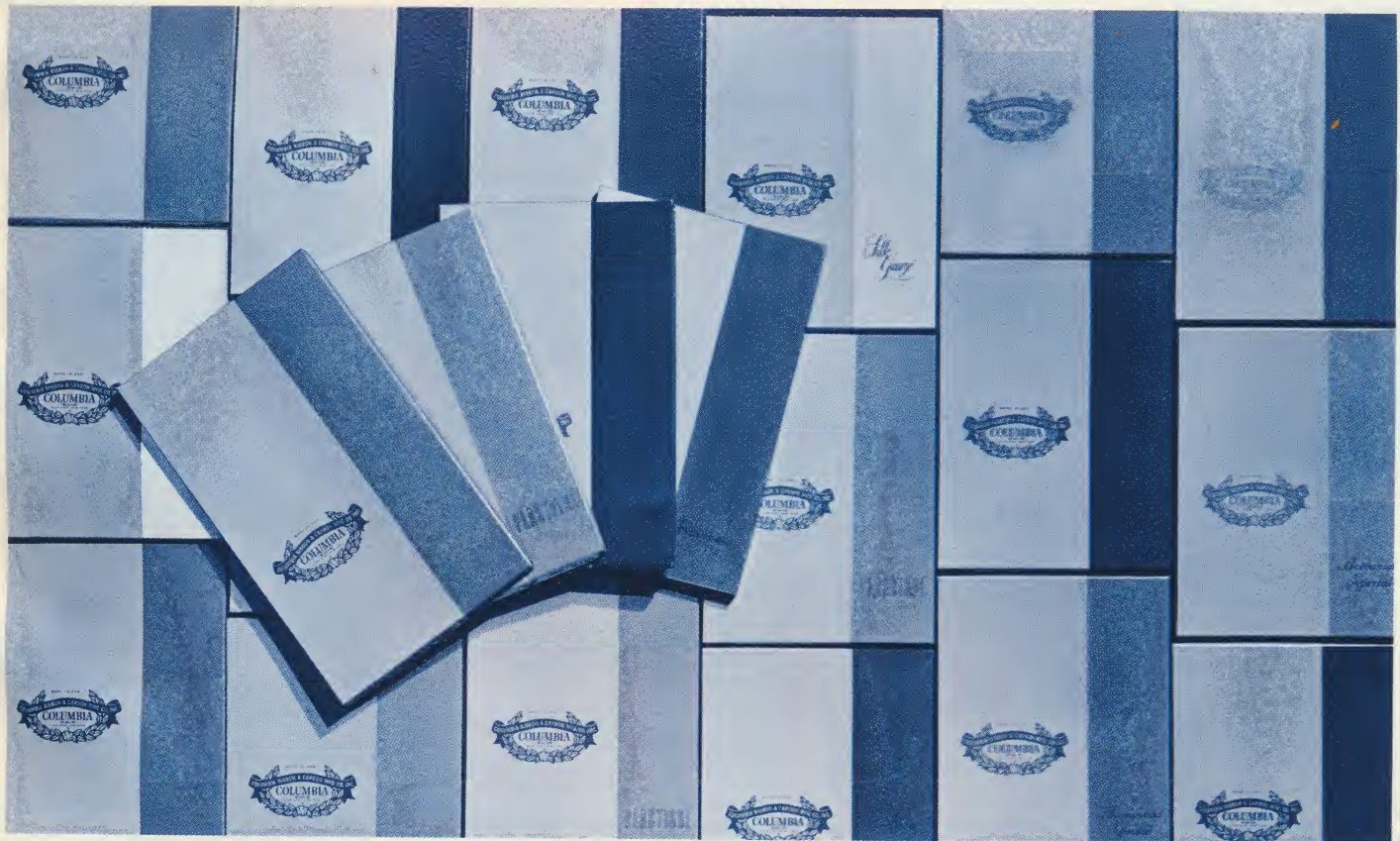


You want the *right* carbon paper for your work, paper that gives *maximum* performance and economy.

Columbia helps you two ways:

- with carbon papers for *every* business need
- with specially-trained Columbia men to help you choose those carbons which fit *your conditions*.

As with all its products, the Columbia carbon paper brands give the best quality and service for the purpose and price. Different jobs and machines need different paper weights and densities. Other factors being equal, lighter weight papers make more copies. Heavier papers take more abuse and last longer.



CARBON PAPERS

cont'd

The latter, for example, would be recommended in billing operation while lighter weights would be used for correspondence copies. The choice of writing densities depends on the conditions of the job. For instance, an elite type face demands a sharper writing carbon than a pica type face. Your Columbia representative is ready with the right advice. Just ask him.

PAPER WEIGHTS

7 pound	(standard)	1-4 copies
6 pound	(medium standard)	2-7 copies
5 pound	(medium)	5-8 copies
4 pound	(light)	9 copies or more
10, 14 and 15 pound	(heavy)	Bookkeeping, billing and post- ing machines

WRITING STRENGTHS

27—Extra-Extra Sharp	—Gray Writing—For accountant use to provide carbon copy identical to ribbon impressions.
31—Extra Sharp	—Gray Writing—For manifold accounting use. For electric and other heavy stroke or hard platen typewriters.
34—Sharp	—Gray Writing—For standard manual typewriters. For electric and other heavy stroke or hard platen typewriters.
37—Medium Sharp	—Gray—Black Writing—For standard manual typewriters. For electric and other heavy stroke or hard platen typewriters.
40—Medium	—Black Writing—For standard manual typewriters. For electric and other heavy stroke regular or hard platen typewriters.
43—Medium Intense	—Black Writing—For standard manual typewriters. For electric typewriters when machine is adjusted for lighter stroke.
46—Intense	—Intense Black Writing—For manifold on all standard manual and noiseless typewriters. For electric typewriters when machine is adjusted for light stroke.

PLASTISOL F-100 COPY FILM

This is a new all-Mylar* copying sheet. An excellent choice where superlative performance and long range economy are the main considerations. Plastisol F-100 is the result of applying Columbia's patented solvent ink coating to a tough Mylar film base. The film base won't wrinkle, curl, tear, dog ear or cut through. Plastisol F-100 Copy Film will give three to five times the wear of conventional carbon. Copies are smudge proof. Packed 100 sheets per CARBNPAD for space saving, convenient handling. Every pad sealed at the factory for extra protection against moisture and dust. Available in Plastisol F-100 gold back (standard weight) for the ultimate in wear, silver back (lightweight) for maximum manifolding.

*Registered T.M. of DuPont

PLASTISOL TYPEWRITER CARBON

Plastisol typewriter carbon uses the same solvent coating as Plastisol F-100 Copy Film, bonded to a high grade carbonizing tissue. This sheet will give longer life and more uniform wear down than any ordinary carbon sheet. Available in standard and light weights.

#55 COPYING SHEET

A new economy sheet utilizing the popular, durable, plastic solvent ink formula. Provides cleanliness and durable long wear. Available in standard and light weights.

CLASSIC

A Columbia brand carbon paper with special back treatment to eliminate curl and slippage. 100% rag tissue, coated with an exacting ink formula utilizing the finest qualities of carnauba wax and special pigments and toners. Available in a selection of weights and finishes to fit a wide variety of needs for manual and electric typewriters.

COMMANDER

Popular for many years because of a combination of high quality tissue, control coated with its own special formula. The attractively printed back is processed for non-curl. Strong writing. Available in a variety of weights and finishes for manual and electric machines.



CARBON PAPERS *cont'd*

Most Columbia brand carbon papers are made in "quick extraction" sizes, i.e. $8\frac{1}{2} \times 11\frac{1}{2}$, $8\frac{1}{2} \times 13\frac{1}{2}$, $8\frac{1}{2} \times 14\frac{1}{2}$. The upper left and lower right hand corners are cut, and the extra $1\frac{1}{2}$ " permits quick, easy extraction as well as extra wear.



MARATHON

Marathon's name is derived from its long wear. An all purpose, quality carbon designed to satisfy the most discriminating user. Adaptable for many purposes. Non-curl processed back. One finish and three weights of Marathon carbon provide a wide range of performance on standard, electric and noiseless typewriters.

PINNACLE

Columbia's first "name brand", Pinnacle is a fine paper for general office use, and is truly famous for legal use. The specially processed hard surface guarantees fine, sharp copy and easy erasing properties. The nonprocessed back is attractively imprinted. Available in one universal writing strength, a variety of weights and a wide choice of colors.

ACCOUNTANT SPECIAL

Just what the name implies—a special carbon paper developed for the accountant's "matched" reports. Produces an original-like copy. Crisp, sharply defined, nonsmudge imaging so vital in accounting and statistical reports. A lightweight paper tissue with processed back designated as "Super" and standard back termed "Regular."

RAINBOW

An economical non-curl carbon paper for general office use. Rainbow works equally well on hard hitting standard as well as electric typewriters. Excellent wearing qualities. Available in a selection of weights and writing densities.

GILT EDGE

An economical non-curl sheet for the volume user. Combines many of the features of the more expensive processed back carbons. Available in a selection of weights and writing densities.

NUMBERED CARBONS

In addition to the brand name carbons, Columbia can supply a variety of unprinted typewriter carbons referred to by number designations. At various prices and for special requirements, the numbered carbons may be recommended for your particular need by a Columbia representative.

ODD SIZE AND REAM SIZE TYPEWRITER CARBON

All grades of Columbia typewriter carbons can be provided in cut sheets in any size up to 26" wide and almost any length required. In addition to special size cut sheets, Columbia supplies ream sizes (500 sheets)...17¼ x 23 or 29 and 26 x 34½, 40½ or 44.

COLORS

Marathon carbon papers are available in blue and black. Pinnacle carbon papers, in blue, red, green, purple, brown and black.



PENCIL CARBONS

PLASTISOL PENCIL CARBON

Again Columbia provides the patented Plastisol ink formula for a special purpose. Plastisol pencil carbon is unsurpassed for wear and performance. Capable of producing the greatest number of smudgeproof copies. Columbia's patented Plastisol ink coating is applied to a fine carbonizing tissue. The solvent ink coating guarantees a uniform imaging, copy to copy throughout the exceptionally long life of this superior pencil carbon. Because of its recuperating quality, there can be no sudden color letdown resulting in illegibility. Copies are brilliant, and free from "tack". Excellent manifolding. Available in blue or black.

TITAN PENCIL CARBON

The only pencil carbon that affords both maximum cleanliness in handling and good smudgeproof copies. Titan pencil carbon is composed of an excellent carbonizing tissue and a specially formulated carbon coating. Copies are bright, sharp and clean. Non-tacking Titan has good manifolding properties and specially processed back for non-curl. Available in two weights in blue only.

NON-STICK PENCIL CARBON

The name describes the product. A non-tacking, oil soluble formula is used in the manufacture of this economy pencil carbon. The carbon will not stick or "tack". Available in two weights and three writing densities in blue or black.



LETTER-MATE CARBON COPY SETS

A top quality one time carbon is combined with a fine copy sheet designed to give superior performance. Letter-Mate Carbon Copy Sets are a time-saving short cut for volume correspondence. There's no jog-aligning of carbon and copy paper into sets. The typist's hands need never touch the carbon sheet. Letter-Mate erases easily, yet produces sharp, clean copies. Letter-Mate Carbon Copy Sets may be furnished plain or preprinted to your specifications. There are four styles to choose from—in a wide variety of sizes and copy sheets.

BILLING CARBON

A billing carbon must be sensitive enough to produce the required number of clear copies and at the same time be sturdy enough to give reasonably long wear on hard hitting billing and bookkeeping machines. Columbia provides a selection of numbered carbons on heavy weight tissues in a variety of writing densities to meet these requirements. Available in cut sizes and in roll form. Billing carbons are also widely used in the preparation of binders for bookkeeping or billing applications.

HOTEL RACK CARBON

Furnished on white paper stock with black carbon coating only. Available either in ream size uncut, or cut sheets 1½" x 4" or cut 4" x 12" with perforations every 1½".

OPAQUE CARBONS

Furnished in orange and yellow in 7# stock for typewriting and 40# stock for tracing or drawing.

TRACING CARBONS

Columbia makes a number of carbons, available in a variety of colors, suitable for tracing.

ONE TIME CARBONS

Available in a variety of finishes and grades either in black or blue in ream size or full rolls.

ORDER BOOK PENCIL CARBON

Order book pencil carbon can be furnished with either single or double coating—for one or two copies. Available in blue or black.

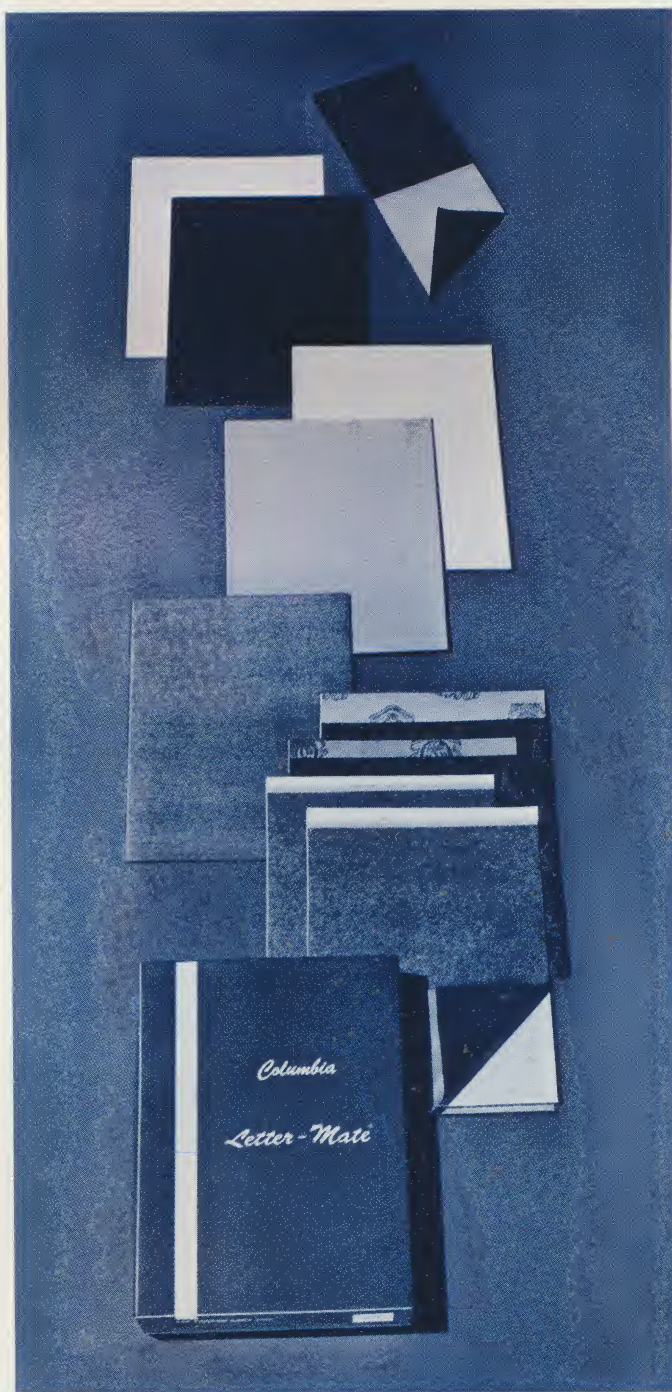
BINDER CARBONS

Any Columbia carbon, either typewriter or billing, or a combination of carbons can be selected in any variety of weights and finishes to be furnished in binders.

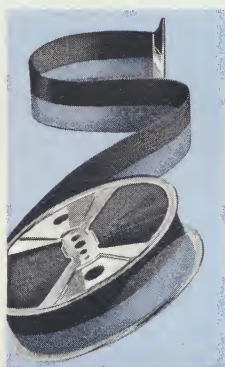
REVERSE COATED

This special purpose sheet is also known as "saddle back" carbon, and is used most commonly with bookkeeping machines. A selection of Columbia carbons in various weights and writing densities is available.

SPECIAL PURPOSE CARBONS



FABRIC RIBBONS



More than 50 years of research and development have brought the Columbia line of quality fabric ribbons to their present excellence. Even so, Columbia does not stop there. Its pioneering continues—in making new and better ribbons for today's office machines and in researching for tomorrow's.

You want ribbons that do the work the way you want it done. From Columbia you get exactly what you want. In its extensive line, Columbia has the fabric, color, writing strength, inking (including any special requirements) for the machines you use.

Many factors affect a fabric ribbon's writing strength—intensity, color, consistency, opacity, and pigmentation. Other factors are the kind of machine used, type size, paper characteristics, number of copies, wear, touch and personal preference. Columbia has a special micro-dispersion fluid inking process that gives uniform copy throughout the life of the ribbon. Choose the writing strength that suits you in silk, cotton, or synthetic fabric ribbons from Columbia. Your Columbia specialist is trained to help you make the right selection for your particular needs.

SPECIAL INKINGS

In addition to regular record inkings, Columbia offers ribbons in these specially formulated inks for specific applications: Blueprint • Opaque for Whiteprint Process • Parchmentized or Glycerine Paper • Letterpress • Cellophane or Glassine Paper • Checkwriting • Wax Carton • IBM or Remington Tab Card • Transfer Posting • Hectograph • Photostat • Laundry & Cleaner Proof • Eradicable • Hard Bond Paper • Offset • Thermographic

COLUMBIA'S FLUID INKING PROCESS

Unlike the inking of many conventional ribbons, Columbia's exclusive inking process uses ink that is fluid, somewhat like the ink in a fountain pen. Like a good pen, Columbia's quality ribbons write uniformly from first letter to last—no messy break-in period—no uneven color weakening. Micro-dispersion fluid ink, in combination with Columbia's first quality silk or cotton fabrics, permits "self re-inking" through capillary attraction. Lint free fabrics withstand machine pounding without matting or crushing. This allows the fluid ink to flow into just-used areas evenly, redistributing the ribbon's ink supply.

COLORS

In addition to regular black, or black and red record colors, Silk Gauze, Classic, Pinnacle and Rainbow brands are stocked in the following colors. These stock colors are for type-writer ribbons only: Navy, Pacific Blue, Brilliant Blue, Sapphire, Sky Blue, Flag Blue, Turquoise, Green Blue, Warm Brown, Red Brown, Mink, Beaver Brown, Fawn, Standard Red, Royal Red, Forest Green, Grass Green, Ocean Green and Sparkling Purple. With the modern emphasis on color harmony, the Columbia Company recommends its wide choice of stock colors in top quality ribbons. A color may be chosen to complement or contrast with your letterhead. Customized colors are available on a minimum order of 3 dozen.

SILK GAUZE

The combination of Columbia's exclusive fluid inking process and lint free pure silk assures executive quality correspondence throughout this ribbon's amazingly long life, by actual test three to ten times longer wear than conventional fabric ribbons. From the first moment of use, you get clean, sharp imaging. Copies are uniform even when the ribbon has been subjected to hard usage. There can be no uneven impressions, spotty copy or sudden color letdown. Silk Gauze ribbons are supplied for all makes of standard, noiseless or electric typewriters as well as various business and data processing machines. Available in a wide range of colors and writing strengths.



FABRIC RIBBONS

cont'd

COMMANDER

Commander is a new synthetic fabric ribbon specially woven to produce the closest likeness to carbon-ribbon imaging ever achieved in a fabric ribbon. Outstanding sharpness. No trace of fabric weave even when the image is enlarged. A Commander ribbon image can be enlarged or reduced in photo copy work without blurring or loss of clear cut definition. Excellent for executive correspondence, the Commander ribbon is an ideal choice where both fabric and carbon paper ribbon typewriters are used in the same office. Available in black, and black and red.

MARATHON

An unusual synthetic fabric is used in this Columbia ribbon for extreme copy cleanliness and clarity. A special ink formula has overcome the problem of ink penetration of synthetic fibers. Outstanding performance and long wear are characteristics of the Marathon ribbon. The toughness and resiliency of the fabric withstands cutting or fraying on hard hitting business machines. Available in black, and black and red, in a selection of writing strengths.

CLASSIC

This exceptional ribbon is our premium brand cotton ribbon, made of the finest long fiber cotton available. Longer length for longer life. A good choice for sparkling correspondence. Classic ribbons eliminate the usual break-in period. Easy to erase without the annoying remains of erasure "ghosts". Uniform writing from the first moment it is put on the machine until it is finally removed. Available in a wide range of colors and writing strengths.

PINNACLE

Pinnacle is a cotton ribbon noted for its fine writing and wearing qualities. Gives excellent performance for an economy price. Recommended for general office use. Available in a wide choice of colors and writing strengths.

RAINBOW

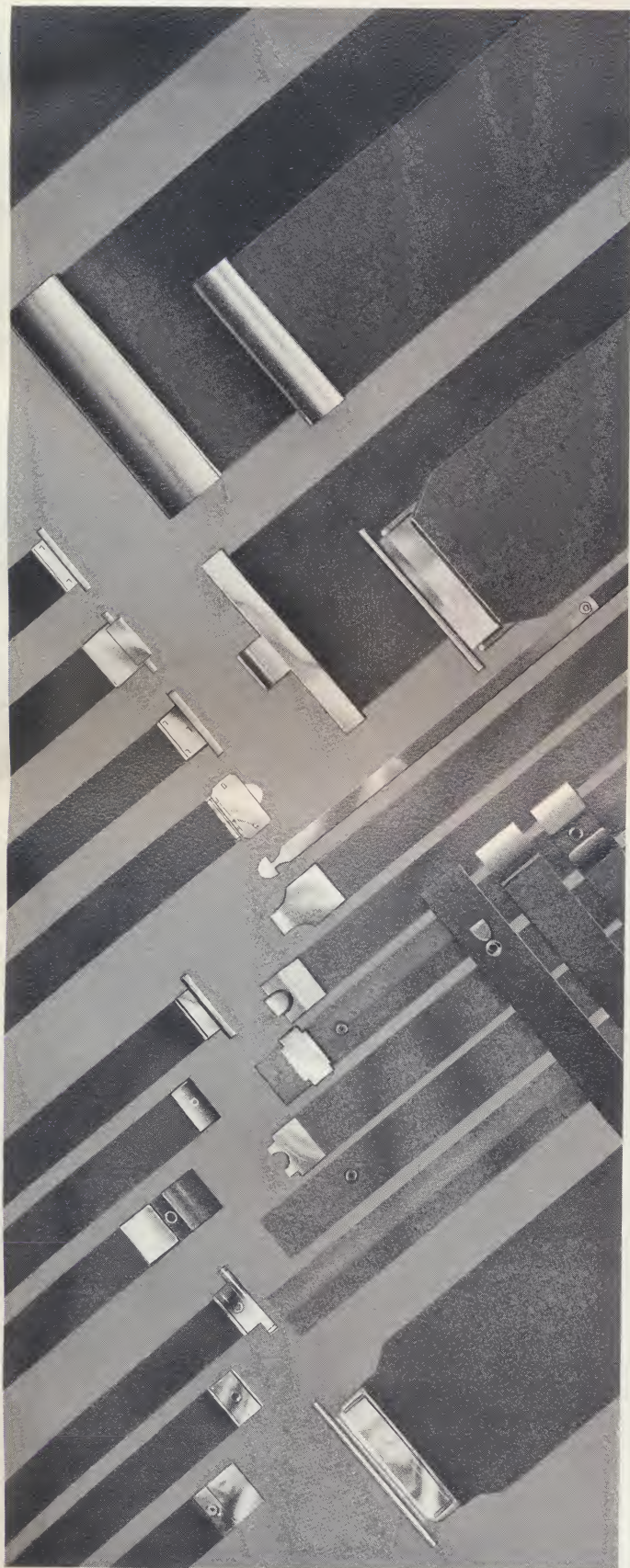
This is a heavy duty cotton ribbon especially developed to withstand hard general typing. Rainbow ribbons are not as sharp writing as the finer cotton qualities. Recommended for general billing work where performance and economy rather than appearance are the primary factors. Available in a wide choice of colors and writing strengths.

COLUMBIA DH&D

An economical cotton ribbon recommended for school typing classes and other uses where value is important but high quality results or the prestige look of executive correspondence are not required. Available in black, and black and red.

GILT EDGE

Gilt Edge is a utility ribbon designed for economy. This ribbon will give substantial wear and satisfactory reproduction despite its low cost. Recommended for school typing classes and routine office work where price is the main consideration. Minimum order one gross. Available in black, and black and red.



SPECIAL PURPOSE FABRIC RIBBONS

New machines call for new products. An infinite variety of special purpose ribbons are available from Columbia. The rapid advances in business machine technology necessitate supply items that keep pace with improved machine performance. Today there is a demand for prestige appearance of copy as well as the emphasis on performance and wear of the product that makes the copy. There are new and better ways of processing the mountains of paperwork, and consequently there are new and better products to handle the job. We call your attention to a few of Columbia's special purpose ribbons.

PLASTICIZED ADDRESSOGRAPH RIBBONS

A special Addressograph ribbon furnished in Rainbow quality, regularly inked on one side and plastic sealed on the other. This ribbon is not quite as long wearing as a fully inked ribbon, but insures absolute cleanliness in preparation of Addressograph plates. Ideal when a large number of plates must be prepared, filed, handled and rehandled. The operator's hands and file drawers remain perfectly clean. With a plasticized Addressograph ribbon there is no necessity for cleaning plates because of type-filled illegibility.

COLUMBIA TF267 RIBBONS

Ribbons for thermographic copying are available in Silk Gauze, Classic and Pinnacle qualities. Columbia special TF267 ink in black, blue and red is particularly formulated to give outstanding results when processed through heat transfer copiers. Although ordinary blues and reds do not reproduce through thermographic copiers, the TF267 blue and red will reproduce as well as the TF267 black.

HECTOGRAPH RIBBONS

Columbia hectograph ribbons for preparing gelatin process masters are available in Silk Gauze, Classic and Pinnacle brands. Single color as well as bichrome combinations in purple, green, and red. Can also be combined with regular record ink combinations.



In addition to typewriter ribbons, Columbia manufactures ribbons to the exacting requirements of every conceivable business machine: Tabulators • Bookkeeping Machines • Multigraphs • Speedaumat • Checkwriter • Time stamp • Charge-A-Plate machines • Teletypewriters • Bank Proof machines • Printing Punches • Adding Machines • Cash registers • Addressing machines • Todd Check Protectors • Check-signing machines • Time clocks • Teleprinters • Alphabetical interpreters • End Printing Reproducers • Imprinter Bursters • and many types of ribbons for modern high speed data processing equipment. For complete listing of data processing supply items, please refer to the Data Processing Section.

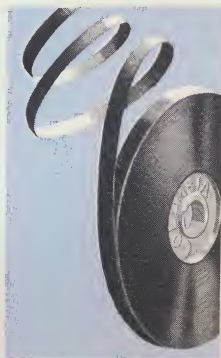
FILM BASE RIBBONS

When you want to create not only an image but an *impression*—an impression of superb quality—choose one of the Columbia film base ribbons. These fine products, from the continuing stream of Columbia's pioneering research, properly complement modern business machines.

Columbia's film base ribbons do two important jobs. They make an impression of unsurpassed excellence. They are versatile because they make the perfect originals for executive correspondence and for all popular copying processes including xerographic reproduction, thermographic copying, direct image and photo offset, and the many diazochrome processes.

COLUMBIA M-50 (REGULAR)

The film base of the Columbia M-50 ribbon is a tough, thin Mylar. The toughness of the Mylar makes the M-50 virtually unbreakable. Its thinness means extra length and fewer ribbon changes. A special "dual coating" in manufacturing causes the ink to "bond" to the base. The ribbons are very clean to handle, yet provide a complete, uniform release of ink at each stroke of a type key. Copy is crisp, sharply defined and easily erased. For dignified appearance to suit the most

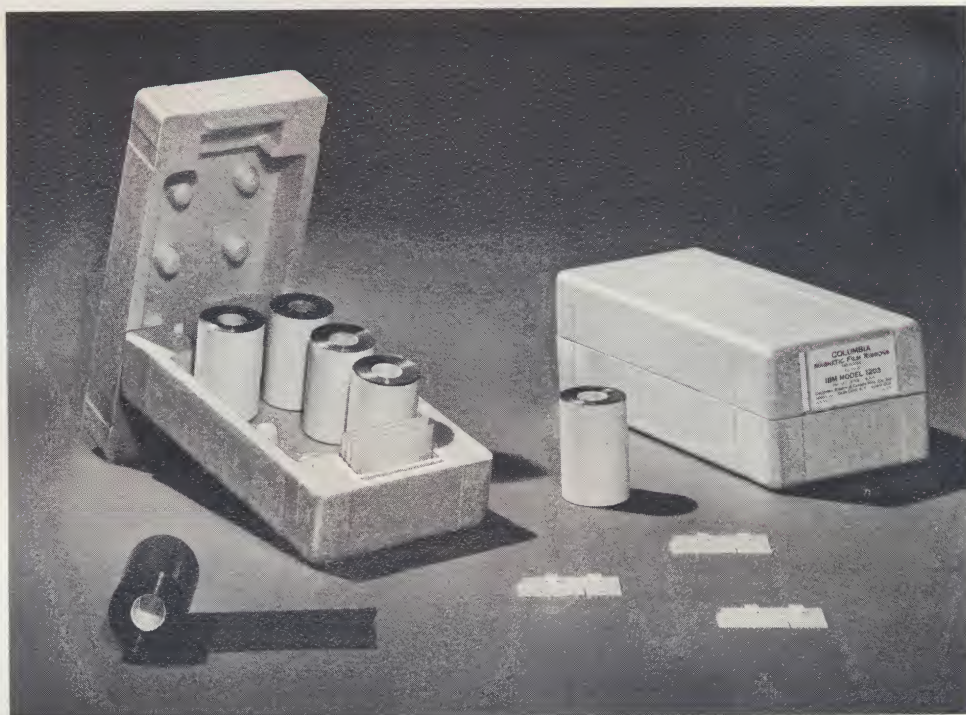


discriminating taste, and for perfect originals for the various modern copying processes, use Columbia M-50 ribbons. Black only.

COLUMBIA M-50 (STATIC FREE)

The same features as the M-50 regular. The Mylar base material is especially treated with a silver, metalized back... to completely eliminate static problems so common in machines without take up spools. Columbia M-50 Static Free ribbons are available for all machines. Black only.





FILM BASE RIBBONS *cont'd*

COLUMBIA TYPE N' TAPE

The polyethylene film base ribbon. The film is exceptionally sheer, yet possesses an "elasticity" that insures against breakage problems. The unusual qualities of the film guarantee the very sharpest possible imaging. Beautiful results on executive correspondence. Especially recommended for photo copy work which demands clarity of original impression to permit enlarging and reducing without loss of legibility. Available in black, green, red, brown, light blue and dark blue.

SF-100

A reusable Mylar base ribbon coated with Columbia's patented solvent ink. Copy is uniformly sharp, permanent and smudgeproof. The SF-100 has been especially developed for use with high speed data processing equipment. Recommended for maximum efficiency in optical scanning and photographic reductions. Available for IBM typewriters, tabulators and all data processing and computer machines. Black only.

MAGNETIC INKED RIBBONS FOR MICR

Columbia supplies both film base and paper base magnetic inked ribbons to be used on IBM and NCR sensing and document handling equipment.

These ribbons are used for inscribing magnetic ink characters on checks, statements and other documents which are to be processed on high speed equipment, the type used in banks and check handling operations.

CARBON PAPER RIBBONS

Columbia carbon paper ribbons are made in a wide range of tissue weights, writing strengths, colors and sizes for all carbon paper ribbon using machines. The forerunner of all film base ribbons, carbon paper ribbons were developed to give smooth coverage and enhanced appearance to modern type faces. Differences in type faces, machine pressures, platens, paper and other variables may cause the same ribbon to write differently on different machines. In addition to black, Columbia carbon paper ribbons are available in red, green, blue and brown.

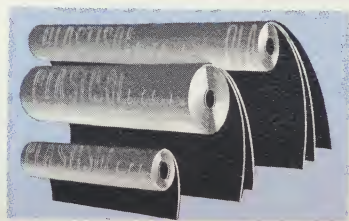
ACETATE FILM RIBBONS

The forerunner of the Columbia M-50 and Columbia Type N' Tape. The introduction of the acetate base ribbon pointed the way to the development of the Mylar and polyethylene film ribbons. Intensely black writing, but less sharp than other film base ribbons. Recommended only for machines with a take up spool. Available in AC-88 Acetate, #958 Acetate, and #959 Acetate. Black only.

SF-730

An entirely new ribbon...the Columbia SF-730. The tough Mylar film, treated with an anti-static back coating for static free performance, is coated with Columbia's patented solvent ink. This insures permanent smudge free copy and completely eliminates static conditions. Available for Varitypers and other composing machines. Black only.

CARBON ROLLS



Another example of the excellent service you receive from Columbia is shown by the wide range of carbon roll products Columbia makes for the office machines you use—from the simplest hand register to the most complex modern business equipment.

No matter what variables are covered by your specifications, Columbia supplies what you need. For example, Columbia's carbon rolls are made in *any* weight and finish of carbon, in *any* width, in *any* number of plies. The same roll can carry plies of different widths and weights. Any of the plies may be partly carbonized instead of fully coated. You specify... Columbia will supply.

TELETYPEWRITER CARBON ROLLS

Carbon interleaved rolls in any required number of plies available in standard yellow paper or a choice of white, blue, green or pink, or any combination thereof. Up to 9 copies of all Teletype messages can be produced easily by the customer's choice of the roll best suited to his need.

KEMKOPY TELETYPEWRITER ROLLS

Perfectly clean to handle and use because impressions are accomplished by chemical reaction. There is no carbon coating to soil hands or clothing. Available in white and yellow or a combination in either two or three plies. KemKopy rolls are also manufactured for use on certain business machines.

TELETYPEWRITER HECTOGRAPH ROLLS

The hectograph carbon roll is recommended when it's necessary to provide many copies of teletypewriter messages. The message is recorded on a spirit master ready for duplicating. Rolls are precision cut for perfect alignment and trouble free feeding, a "must" for unattended machines. Quality spirit carbons with built-in cleanliness in handling and duplicating. Available in blue, black and purple. Also made in Argonaut style providing extra record copy at the same time the spirit master is created.



CARBON ROLLS *cont'd*

REGISTER CARBON ROLLS

The hand register is one of the most common business machines utilizing carbon in roll form. Register roll carbon for any machine from a small manual model to a large electric register is available from Columbia. Carbon rolls for registers must have certain definite characteristics. The carbon must produce brilliant, smudge-free copies and flow smoothly through the register without sticking. Columbia register rolls are available in four distinctive qualities to cover every requirement...*Non-stick sharp*, *Non-stick medium*, *Non-stick brilliant* in blue, and *Plastisol*. Plastisol is recommended for the ultimate in performance and is provided in blue and black. The Plastisol black may be used to produce originals for thermographic copiers.

ELLIOTT-FISHER CARBON ROLLS

The hard hitting action of the Elliott-Fisher machine demands durable carbons. Quality rolls are available in any

widths required, and can be manufactured in any number of plies with a selection of carbons. Where a large number of copies are required, the top ply is usually heavy weight with other plies lighter to insure crisp copies in heavy manifolding. Partially carbon coated plies are available to fulfill any special requirement. Rolls for the Elliott-Fisher are also available in hectograph carbons for spirit duplicating.

SPECIAL MACHINE ROLLS

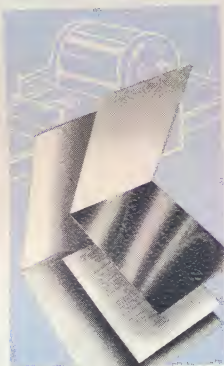
Rolls of various carbon paper weights, finishes, widths, sizes and plies are available for all business machines... Adding machines, IBM Bank Proof carbonized rolls, Burroughs Teller rolls and carbonized journal rolls, N.C.R. bookkeeping rolls, rolls for bookkeeping machines of all types, Underwood Tally Rolls and Sunstrand accounting rolls. Rolls for new machines or special requirements can be manufactured to specifications.



RAY-SURE CORRECTION TAPE

Throw away the eraser! As simple as a strike over! Columbia Ray-Sure Tape provides undetectable corrections. No more time wasted in correcting typing errors the "old fashioned" way. Two sizes to choose from: Small—blue box, 102 sq. in., for over 3,000 corrections. Large—white box, 300 sq. in., for over 10,000 corrections.

HECTOGRAPH SUPPLIES



Because of Columbia's many "firsts" in the hectograph field, you have better materials for spirit duplicating. Columbia research brought you cleaner masters and solved the problem of hectograph dye staining.

"Ready-Master", a registered trade-mark owned by Columbia, describes a special type of patented master unit construction that gives you many advantages. The Columbia Ready-Master Unit is made with a master paper that is specially balanced with the hecto carbon so the two are compatible. The unit construction is easy to fold back for reruns.

Columbia Ready-Master Units are made in a wide range of colors, in short, medium, and long run, with super-coating or patented solvent coatings for extra cleanliness. Choose from a great variety: rolls, continuous forms, cut sizes, pasted, perforated or hinged, plain or imprinted. Columbia has whatever you need.

SPIRIT PROCESS

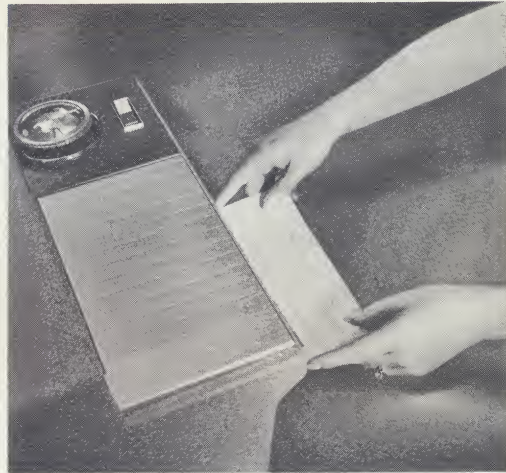
High speed and simplicity characterize the spirit duplicating method. Master paper, on which there is a reverse image, revolves on a hand or electrically driven drum, transferring hectograph carbon to copy paper coated with a light film of spirit fluid. In effect, the spirit fluid dissolves a small amount of the carbon image from the master paper, transferring it to the copy paper which dries in seconds.

GELATIN PROCESS

This duplicating method depends upon the transfer of a positive hectograph image to a gelatin surface, in a tray or roll, from which copies are made. Although it is slower than the newer spirit process, the gelatin process permits exact registration, copies on heavier card stock, lower initial and operating costs, and in many cases, completely portable equipment. Because the original image is positive, the gelatin process is extremely convenient for making drawings in one or more colors.

Original and Transofax spirit or offset master are inserted in a regular thermographic copier.

In seconds the Transofax spirit or offset master has been prepared by the thermal copier.



TRANSOFAX*

The new Transofax Process by Columbia is a method of transferring original copy work to either a spirit or offset duplicating master by thermographic means. The only equipment required is a thermal type copier and a duplicator.

Depending upon the type of copy to be reproduced, one of two simple procedures is followed.

To reproduce typing, writing, diagrams, maps, cartoons, illustrations, printed material or clippings, the Reflex Method is used.

Two sided originals may be used and printed material, such as a newspaper clipping, may be readily duplicated.

The original to be duplicated is simply passed through a thermographic copier with a Transofax Reflex unit, thus creating the master.

To produce a master from translucent one sided originals the direct shoot thru method is employed. The procedure is essentially the same as for the reflex except the original is passed thru a thermographic copier with a Transofax direct shoot thru unit.

In addition to the speed, versatility and ease which Columbia's Transofax Process brings to offset or spirit duplicating, its cleanliness in preparation of master units is of primary importance to the customer. It takes the handling of masters away from the secretary and puts it in the duplicating department.

TRANSOFAX SOURCE MASTER PAPER

A translucent sheet which may be prepared to serve as an original. Especially designed for shoot-thru method.

TRANSOFAX SOURCE MASTER UNIT TYPE "A"

A smudge-resistant carbon combined with a translucent paper to create a control original. Designed for shoot-thru method.

TRANSOFAX SOURCE MASTER UNIT TYPE "B"

A spirit carbon paper unit which combined with a source master produces a spirit hecto master for the Transofax shoot-thru method.

TRANSOFAX SPIRIT MASTER UNIT TYPE "C"

A spirit carbon paper unit designed to produce a spirit hecto master from any original, whether opaque or two sided, by the Transofax reflex method.

TRANSOFAX SPIRIT MASTER UNIT TYPE "D"

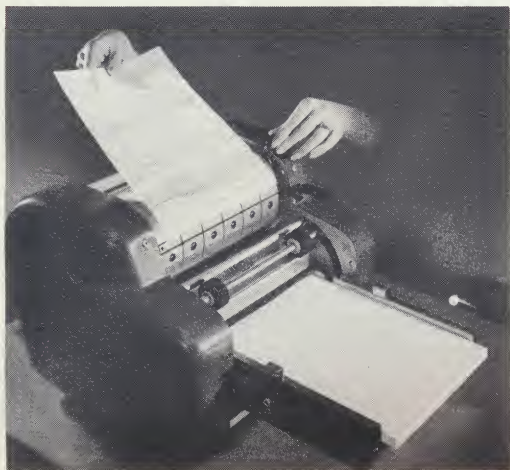
A film hecto spirit unit having a greater range than the paper units and producing sharp, clear masters from either translucent or opaque originals. Available in purple, blue and black.

TRANSOFAX OFFSET MASTER UNIT TYPE "G"

A unit designed to create an offset master by proper exposure on a thermographic copier. A translucent original is combined with the "G" unit and passed through the thermographic copier to create the offset master.

*Covered by U.S. Patents 2808777, 2769391

Transofax delivers all the spirit or offset copies you need...quickly, cleanly, and inexpensively.



Transofax offset unit type "H"



TRANSOFAX OFFSET MASTER UNIT TYPE "H"

The "H" unit may be combined with almost any "faxable" original, either opaque or translucent and passed through a thermographic copier to create an offset master which can be run immediately without etching or additional processing of any kind.

TRANSOFAX FILM PROJECTION UNIT

Film projection transparencies can be made simply by combining the Transofax unit with virtually any "faxable" original and passing the assembly through a thermographic copier. The resulting transparency can be projected immediately. The Transofax film projection unit fills the need for an inexpensive, easy means of preparing projecturals for visual training. The film transparencies may be used on any of the popular overhead projectors found in school, government and industrial Audiovisual departments. Also available in dual purpose units for spirit duplicating and overhead projection.

TRANSOFAX ASSEMBLY JACKET

Transparent paper is combined in a unit with a sheet of 20 lb. bond paper. Does not include carbon. The assembly jacket is used for the creation of a single spirit master combining both constant and variable fill-in data.

TRANSOFAX SOURCE CARBON SHEETS

A smudge-resistant source carbon sheet which when combined with a translucent or opaque paper produces a control original for either the shoot thru or reflex method.

TRANSOFAX HECTO CARBON SHEET

A hecto carbon sheet designed to create a Transofax master from a "faxable" original by the shoot thru or reflex method. Available in paper or film.

TRANSOFAX CARRIER

Heavy duty Mylar sheets joined together. Used as a carrier to produce Transofax Masters in the thermographic equipment. Three packing sheets included.

READY-MASTER UNITS

"Ready-Master", a registered trade-mark owned by Columbia, describes a special type of patented master unit construction that gives you many advantages. The Columbia Ready-Master Unit is made with a master paper that is specially balanced with the hecto carbon so the two are compatible. The unit construction is easy to fold back for reruns.

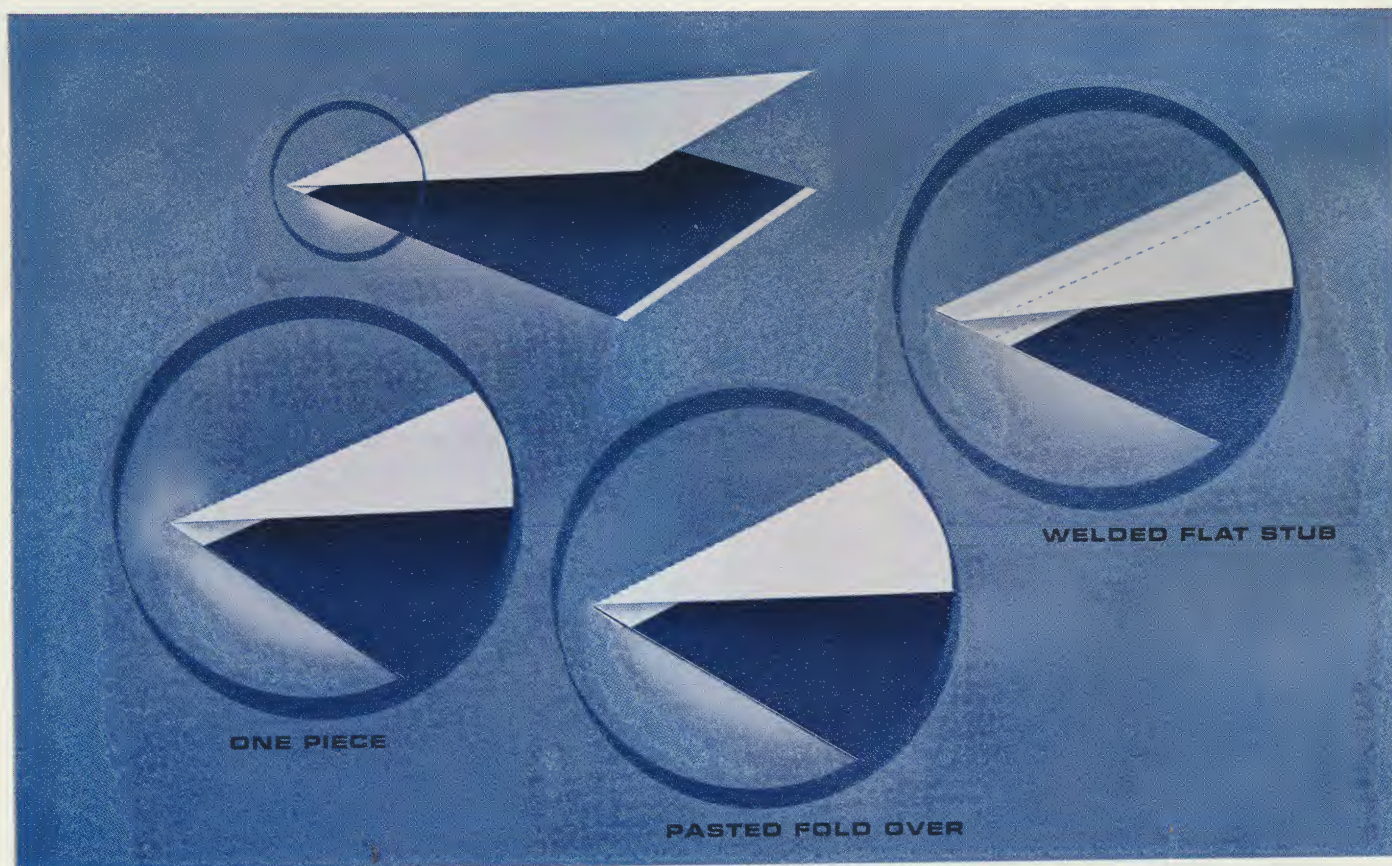
Columbia Ready-Master Units are made in a wide range of colors, in short, medium, and long run with super-coating or patented solvent coatings for extra cleanliness. Choose from a great variety: rolls, continuous forms, cut sizes, pasted, perforated or hinged, plain or imprinted. Columbia has whatever you need.

CLASSIC

The hectograph coating on the Classic Ready-Master unit has been sealed off short of the edges leaving a perfectly clean, dye-free border to handle. The "picture frame" sides keep typists' hands, desks and typewriters clean. Classic provides smooth uniform copy and easy release of coating whether prepared by pen, pencil or any business machine. This unit is supplied with Tru-Guide indicia for accurate positioning of copy. Supercoated. Available in purple for up to 300 copies or black for 125 copies.

PLASTISOL

The cleanest spirit duplicating unit you've ever seen! Supercoated. Non-migrating dyes suspended in a plastic composition assure you the cleanest handling, preparation and duplication. No messy dye stains to plague the typist or machine operator. This new master unit produces crisp, clear copy throughout the long uniform run. Produces up to 250 copies. There's no build-up to maximum intensity—no letdown on



WELDED FLAT STUB construction—perforated on both Master and Carbon 7/16" from top edge. For easy foldback detaching, PASTED FOLD OVER construction—sometimes referred to as "Old Style". Perforated at fold on Master Paper and pasted to back of Carbon Sheet. ONE PIECE construction—a solid single sheet of paper, coated and perforated at fold.

"Stop and Go" duplicating or rerunning. Plastisol is the ideal master for general office or systems duplicating as well as data processing applications. Available in black.

MARATHON

The Marathon Ready-Master is the standard of quality and performance. Maximum brilliance and length of run. Supercoated. Available in purple for 350 or more copies or sharp purple, black, green, red, blue and sharp blue for 150 or more copies.

COMMANDER

For up to 100 sharp, crisp copies. Commander Ready-Master units are widely used in printed forms, either cut or continuous. Supercoated. Available in black only.

NO. 9

The original Ready-Master unit. A long run, brilliant writing master for general duplicating requirements. No. 9 Ready-Master units are medium priced, quality masters especially designed for economical volume production, up to 400 copies. Purple only.

NO. 8

A medium run unit. For production up to 250 copies. Welded flat stub construction. Purple only.

NO. 4 SUPERCOATED

No. 4 Supercoated Ready-Master is a medium run master of average brilliance. Welded flat stub construction for easier feeding and separation. The clean edges at top and bottom facilitate handling of master and carbon. Perforation on the carbon side permits easy fold-back for reruns. Supercoated. Recommended for 150-200 copies. Purple only.

NO. 4

Many of the features of the No. 4 Supercoated Ready-Master—welded flat stub construction, clean edges at top and bottom and perforation. Not supercoated. It is recommended for 100-150 copies of average brilliance. Available in purple only.

METHODS MASTER

An economical short to medium run master of average brilliance. Extremely sharp writing. A good choice for systems applications where a limited number of copies are required up to 200. Supercoated. Available in purple, black and blue.

NO. 26 SUPERCOATED

The economy master unit with a "cleanliness" feature. A sealed surface master, especially designed to meet the demand for sharp, clean copies in limited numbers. Ideal for systems use, where short runs are required. Recommended for not more than 100 copies. Supercoated. Available in purple.

SUPERCOATING OF READY-MASTER UNITS

Supercoated Ready-Master units have the spirit carbon surface completely sealed with a special coating. This not only provides extra cleanliness but also forms a bond between the master surface and the image. This bond adds to the brilliance of the copy and length of run.

HECTOGRAPH SUPPLIES

cont'd

HECTOGRAPH CARBON

All hectograph qualities in master units may be furnished in sheet form. In addition, there are carbons specifically intended for gelatin duplication in purple, red, green and blue. Ream sizes up to 26 x 39 as well as cut sheets can be furnished.

HECTOGRAPH ROLLS

Where extra copies are needed — quickly and economically — the hectograph roll can be the answer. Regular or super-coated carbon rolls are available in a wide range of writing finishes, purple or black. Hectograph carbon rolls are supplied for Elliott Fisher machines; in two and three ply rolls for teletypewriters and for IBM and Remington Tabulators.

HECTOGRAPH CARBON PAPER RIBBONS

Sharp and medium sharp writing hectograph ribbons are furnished for IBM Hectowriters and tabulators. All hectograph ribbons are either supercoated or edge coated, or both, for maximum cleanliness. Purple, blue or black.

HECTOGRAPH FABRIC RIBBONS

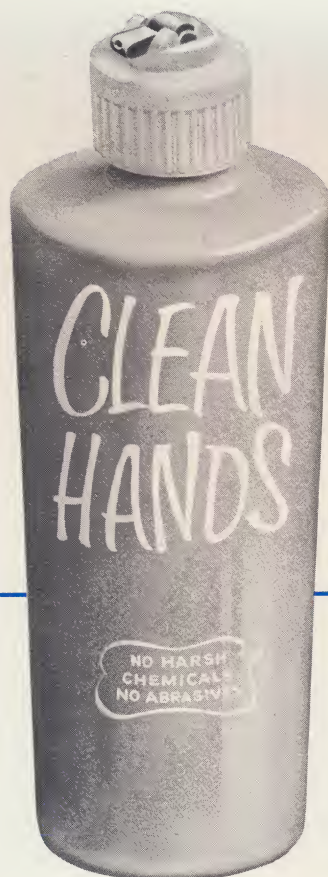
Columbia hectograph ribbons are provided in Silk Gauze, Classic and Pinnacle qualities. They are furnished with hectograph ink formulations for gelatin reproduction in various inking degrees. These ribbons can be supplied in single color and bichrome; purple, green, and red and record ink combination; as well as tandem and tandem-bichrome combinations.

COLUMBIA DUPLICATING FLUID

The top-quality spirit duplicating fluid. Produces more and better copies per gallon than conventional fluids. Protects masters from "soaking" distortion and uneven reproduction. Odorless Columbia duplicating fluid will not rust or contaminate duplicating machines.

HECTOGRAPH ERASER

Non-abrasive, soft erasers for easy corrections of spirit masters.



CLEAN HANDS

The modern, waterless hand cleaner for home and office use. Removes stubborn stains without harsh chemicals or abrasives. Just a few drops massaged into the hands and tissue off remove grime, ink and hectograph stains. Hands remain smooth and soft and are protected against chapping. Pleasant, light lemon fragrance. Clean Hands may also be used to "pre-glove" the hands before starting to work. Dirt and grime will not penetrate the skin and will easily lift out. Packaged in unbreakable squeeze bottle.

DATA PROCESSING SUPPLIES



Today you use ideas that were radical 10 or 20 years ago: computers—systems work—integrated data processing. They give you easier and more efficient office operations. Columbia knows these methods and machines well. Columbia has supplies for you that keep them going at peak efficiency.

Tomorrow, who knows what new ideas you will adopt that further improve office procedures? As it has researched, developed, and now makes a complete line of data processing supplies, you can be sure that Columbia will pioneer products for those new and advanced machines.

Inked ribbons for data processing machines must be 100% dependable, must be able to withstand the stresses of high speed operation and perform perfectly on precision engineered equipment. Columbia furnishes a selection of fabric and film base ribbons, each developed and manufactured to fulfill certain exacting requirements. Columbia ribbons are specially tested for the best adaptability to data processing requirements.

SILK GAUZE

The finest pure silk is used in the manufacture of this ribbon. Extreme resiliency and toughness of this fabric guarantees unusually long life and resistance to tearing, cutting, and fraying. Silk Gauze ribbons are specially fabricated of closely woven, lint free silk, insuring against clogging of delicate machine parts. Because of Columbia's exclusive micro-dispersion fluid inking process, copies are uniform even when the ribbon has been subjected to hard usage. There can be no sudden color letdown, thus providing both uniformity and accuracy of print in high speed operations. For all tabulators and for computer systems demanding optical character recognition work.

MARATHON

Marathon is a Columbia ribbon manufactured of an unusual synthetic fabric for copy cleanliness and clarity. This fabric is woven under pressure to withstand hard usage. A special ink formula has overcome the problem of ink penetration of synthetic fibers, so that the Marathon ribbon is outstanding for wear and performance. For all tabulator and computer optical scanning applications, plate preparation or longest wear for general print out.

DATA PROCESSING SUPPLIES

cont'd



CLASSIC

Columbia's premium brand cotton ribbon is made of the finest cotton available. Long fibered cotton strands are woven according to Columbia specifications to withstand hard hitting type blows. Longer length for longer life. Columbia's exclusive fluid inking process provides the uniform wear-down necessary in many data processing systems. Available for all tabulating machines in a wide range of colors.

PINNACLE

This is a cotton ribbon prominent for its fine writing and wearing qualities. Its fluid inking process insures long life and uniformity. The Pinnacle ribbon is the ideal product where satisfactory performance and economy are the major requirements. Available for all tabulating machines in a wide choice of colors.

RAINBOW

The Rainbow ribbon is a heavy duty ribbon for use where economy and performance are essential requirements. Intense writing. Available for all tabulating machines.

MAGNETIC INKED RIBBONS FOR MICR

Columbia supplies both film base and paper base magnetic inked ribbons to be used on IBM and NCR sensing and document handling equipment.

These ribbons are used for inscribing magnetic ink characters on checks, statements and other documents which are to be processed on high speed reading equipment, the type used in banks and check handling operations.

SF-100

Columbia SF-100 is a reusable, Mylar base ribbon delivering the ultimate in sharpness and uniformity. Made of tough Mylar coated with Columbia's patented solvent ink formula, the SF-100 produces absolutely smudge proof copies and uniform impressions across a page and from sheet to sheet. There is no sudden color letdown or broken characters throughout its life. This outstanding ribbon is recommended especially for photo offset originals, where impressions have to be enlarged or reduced without loss of legibility. The SF-100 ribbon also provides the best possible imaging for optical scanning—reducing scanning rejects.

M-50

The Columbia M-50 is a direct image transfer ribbon made of tough, Mylar film which is virtually unbreakable. During its manufacture, a special "dual coating" process "bonds" the ink to the base so that the ribbons are exceptionally clean to handle. Always provides a complete uniform release of ink. The Columbia M-50 data processing ribbons are treated to eliminate static. This ribbon will not flake or smear. Images are always crisp and smudge-free. Recommended for direct image offset originals and photo reduction.

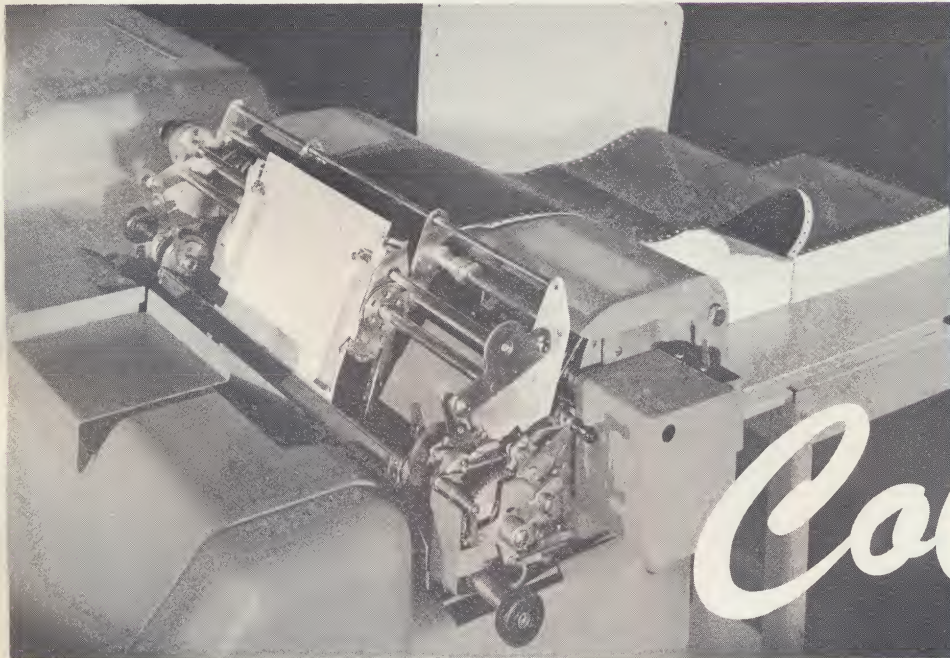
SPIRIT HECTOGRAPH AND OFFSET DUPLICATING ROLLS

Columbia has researched and developed numerous products for data processing applications. Among these are rolls for the finest results in spirit and offset duplicating. All rolls are precision cut for proper alignment and trouble free accuracy in feeding. This is a *must* for unattended machines. Spirit hectograph or offset masters may be combined in roll form with other Columbia products to provide for unusual systems requirements. Spirit rolls are available in a variety of quality carbon coatings and sizes to meet any production requirements and for every need.

Offset rolls are made of nationally known Colitho direct image plates for use on offset duplicating equipment. The absolute minimum of preparation and handling is required, and corrections are made easily and quickly without finger-printing or smudging. Every copy produced is an "original" in appearance.

CONTINUOUS FORMS

Columbia provides a unique service for all tabulating and data processing systems requirements. There's a Columbia continuous form for every need from simple duplicating to electronic data processing. A selection of Colitho direct image plates and Columbia spirit duplicating masters are provided in continuous form in a variety of stock sizes as well as custom sizes. These can be furnished either plain or imprinted to your specifications.



Columbia

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*Reg. T. M. Du Pont

Columbia RIBBON AND CARBON MANUFACTURING COMPANY, INC.